



Contents of volume 36

Volume 36, Nrs. 1–2, 30 April 1998

Editorial

- 1 *P.P. Groumpos*
ASI '96

Papers

- 5 *X. Chen, D.R. Allanson and W.B. Rowe*
Life cycle model of the grinding process
- 13 *F.G. Filip, A.D. Donciulescu and G. Neagu*
Decision support for blend monitoring in process industries
- 21 *P.C. Stadzisz and J.M. Henrioud*
An integrated approach for the design of multi-product assembly systems
- 31 *B.E. Hirsch, T. Kuhlmann and J. Schumacher*
Logistics simulation of recycling networks
- 39 *A.M. McEwan and P. Sackett*
The human factor in CIM systems: worker empowerment and control within a high-volume production environment
- 49 *B.E. Hirsch, K.-D. Thoben and J. Hoheisel*
Requirements upon human competencies in globally distributed manufacturing
- 55 *A. Bemporad, A. Casavola and E. Mosca*
A predictive reference governor for constrained control systems
- 65 *K. Goggin and J. Browne*
Electronic products recovery—PAWS, a BRITE-EURAM project
- 75 *A. Heikkilä and H. Koivo*
Modular control system with intelligent scheduling
- 83 *C.A. Papandreou and D.X. Adamopoulos*
Architecture of a multimedia communication system for technical documentation in a modern factory
- 95 *E. Zamaï, A. Chaillet-Subias and M. Combacau*
An architecture for control and monitoring of discrete events systems
- 101 *C. Ramos, J. Rocha and Z. Vale*
On the complexity of precedence graphs for assembly and task planning
- 113 *P. Lopez, M.-L. Levy and B. Pradin*
Characterisation by decomposition in scheduling
- 117 *L. Petropoulakis and L. Giacomini*
Development of a hybrid simulator for manufacturing processes
- 125 *L. Chwif, M.R. Pereira Barreto and L.A. Moscato*
A solution to the facility layout problem using simulated annealing

- 133 *M. Christodoulou and V. Gaganis*
Neural networks in manufacturing cell design
- 139 *R. Champagnat, P. Esteban, H. Pingaud and R. Valette*
Petri net based modeling of hybrid systems
- 147 *P.P. Groumpos and A.V. Pagalos*
A two-level structural model for large scale systems
- 155 *S. Fatikow and M. Benz*
A microrobot-based automated micromanipulation station for assembly of microsystems

Volume 36, Nr. 3, 1 June 1998**Editorial**

- 163 *J.C. Fransoo*
Computer Integrated Manufacturing in the Process Industries

Papers

- 165 *S.P. Mavromatis and A.C. Kokossis*
A logic based model for the analysis and optimisation of steam turbine networks
- 181 *B. Csukás and S. Balogh*
Combining genetic programming with generic simulation models in evolutionary synthesis
- 199 *P. Loos and T. Allweyer*
Application of production planning and scheduling in the process industries
- 209 *A. Artiba and F. Riane*
An application of a planning and scheduling multi-model approach in the chemical industry
- 231 *A. Gascon, P. Lefrançois and L. Cloutier*
Computer-assisted multi-item, multi-machine and multi-site scheduling in a hardwood flooring factory
- 245 *F. Blömer and H.-O. Günther*
Scheduling of a multi-product batch process in the chemical industry
- 261 *O. Hammerschmidt and H. Vogelsang*
Design of distributed real time systems in process control applications
- 271 *A. Espuña, A. Delgado and L. Puigjaner*
Improved batch process performance by evolutionary modelling
- 279 *Z. Verwater-Lukszo*
A practical approach to recipe improvement and optimization in the batch processing industry
- 301 Author index to volume 36
- 305 Subject index to volume 36
- 307 Contents of volume 36

Contents continued**Z. Verwater-Lukszo**

A practical approach to recipe improvement and optimization in the batch processing industry 279

Author index to volume 36 301

Subject index to volume 36 305

Contents of volume 36 307